

# CONSTRUCTION OF ADCRE VECTORS

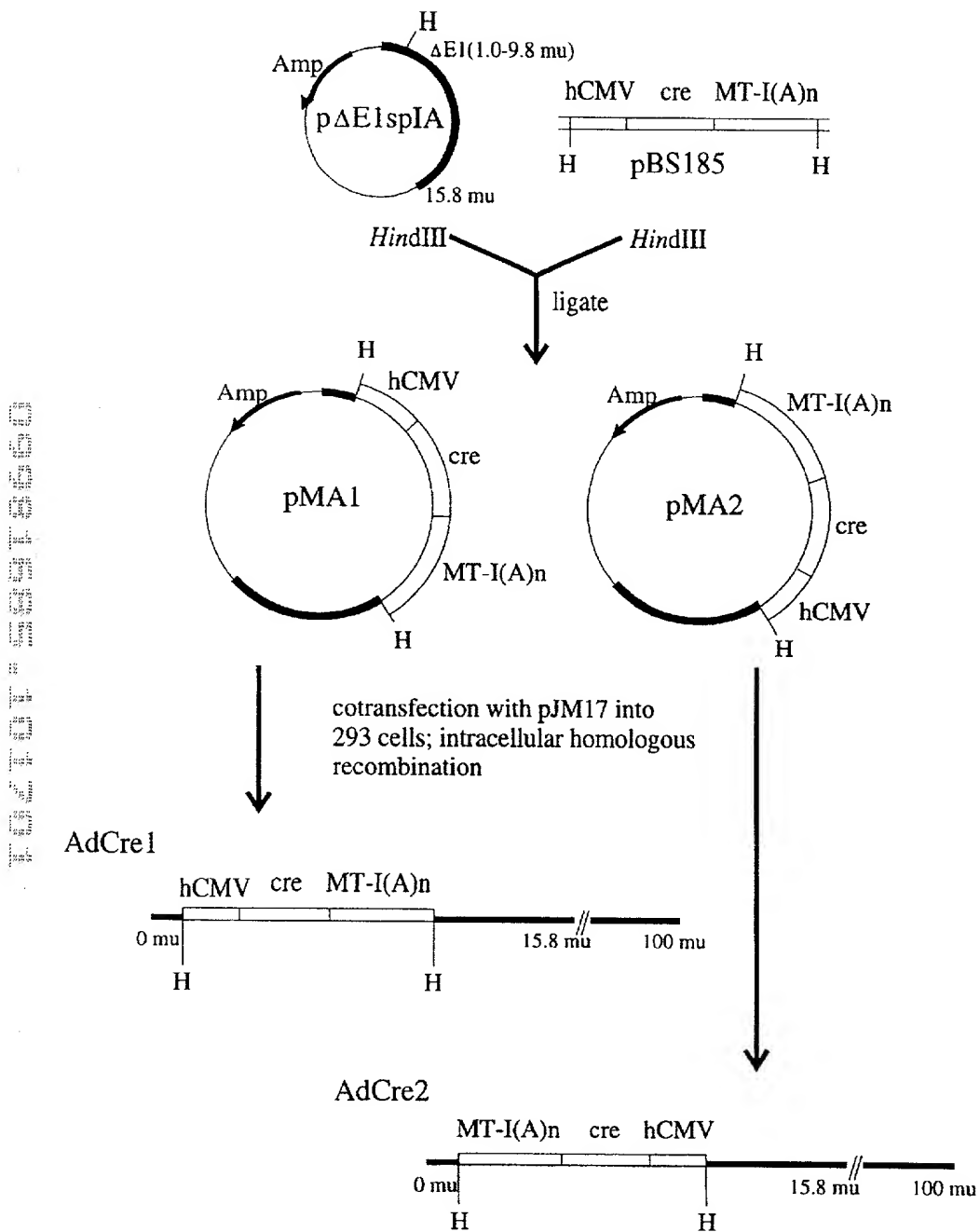


FIGURE 1

# EXPRESSION OF CRE RECOMBINASE IN CELLS INFECTED WITH ADCRE

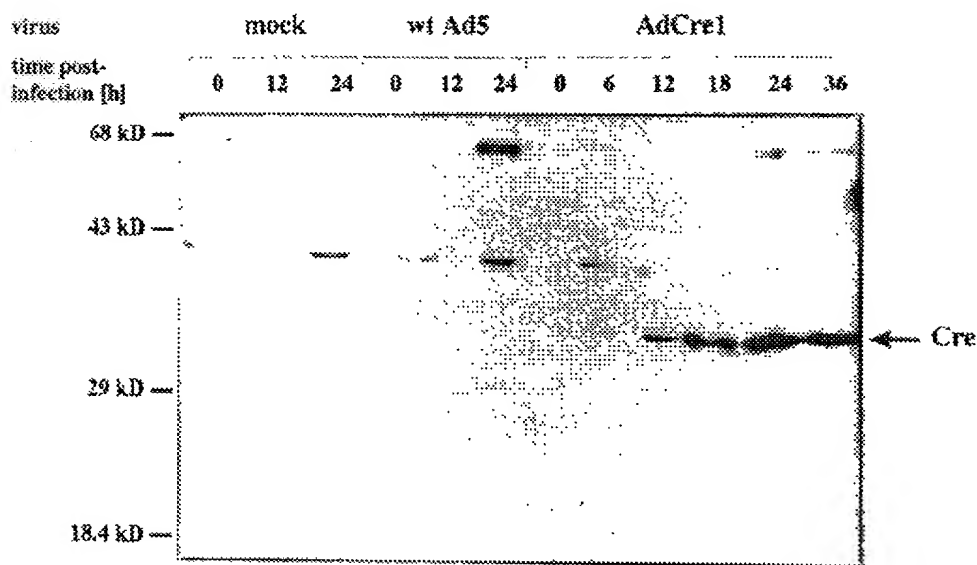
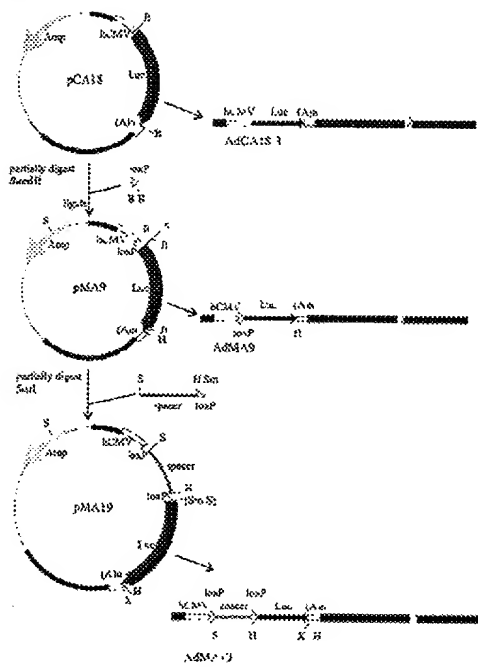


FIGURE 2

# CONSTRUCTION OF AD VECTORS EXPRESSING LUCIFERASE UNDER CONTROL OF A MOLECULAR SWITCH

A



B

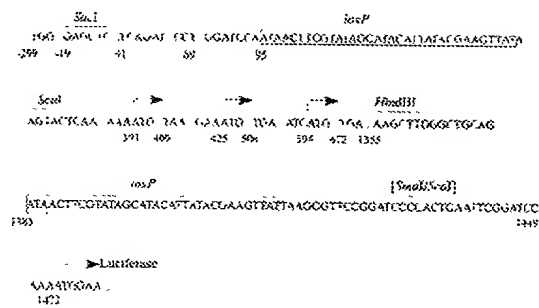
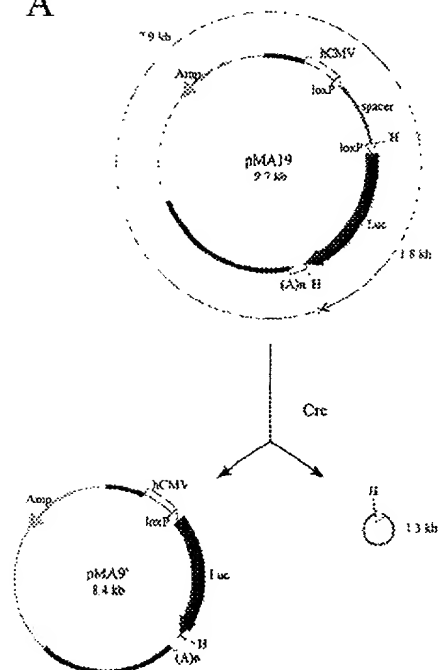


FIGURE 3

## CRE MEDIATED RECOMBINATION

A



B

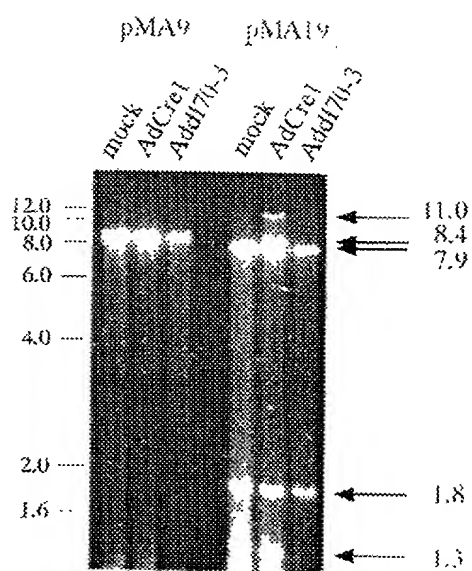
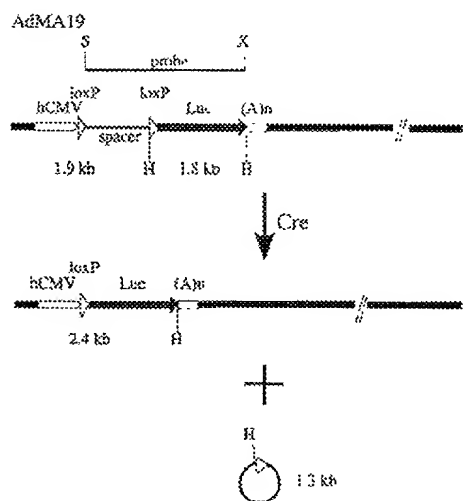


Figure 4

# EXCISION OF SEQUENCES FROM ADMA19 IN CELLS COINFECTED WITH ADMA19 AND ADCRE

A



B

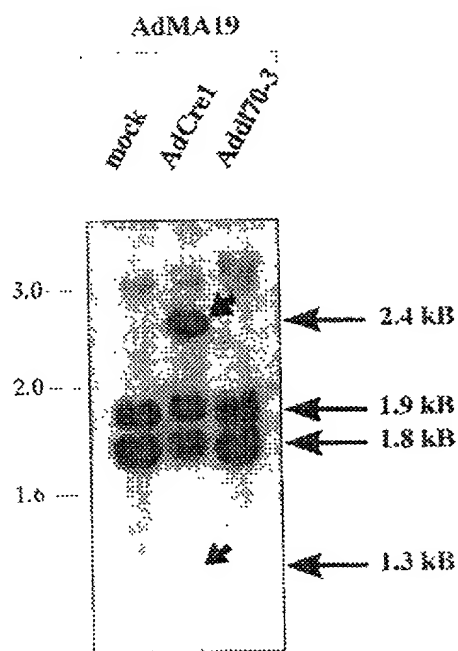
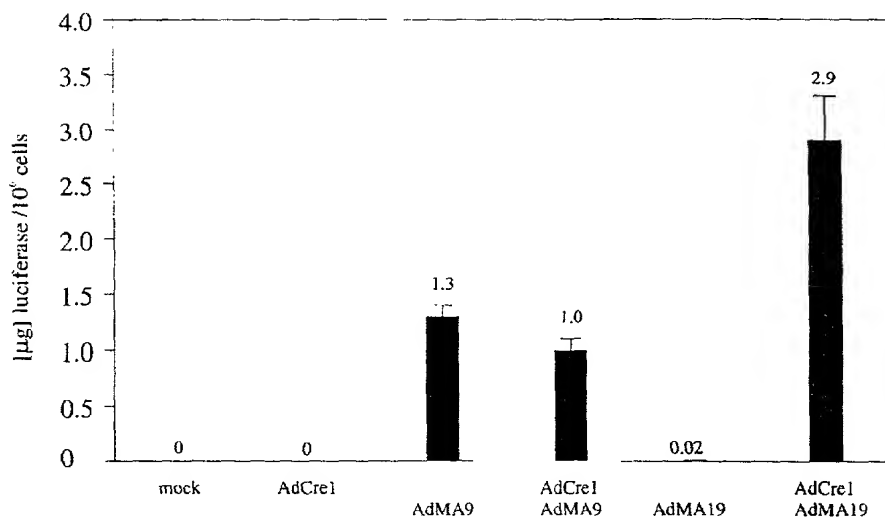


FIGURE 5A,B

# EXPRESSION OF LUCIFERASE IN AD VECTOR INFECTED CELLS

Expt. 1



Expt. 2

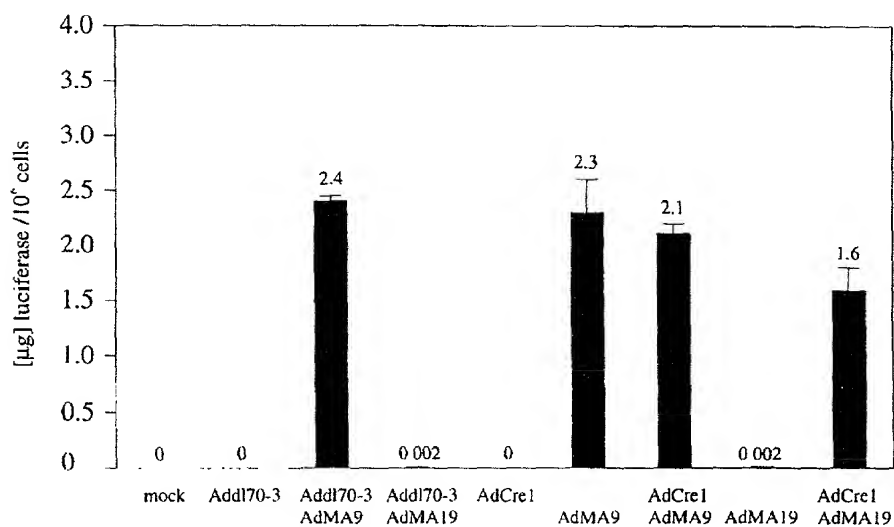
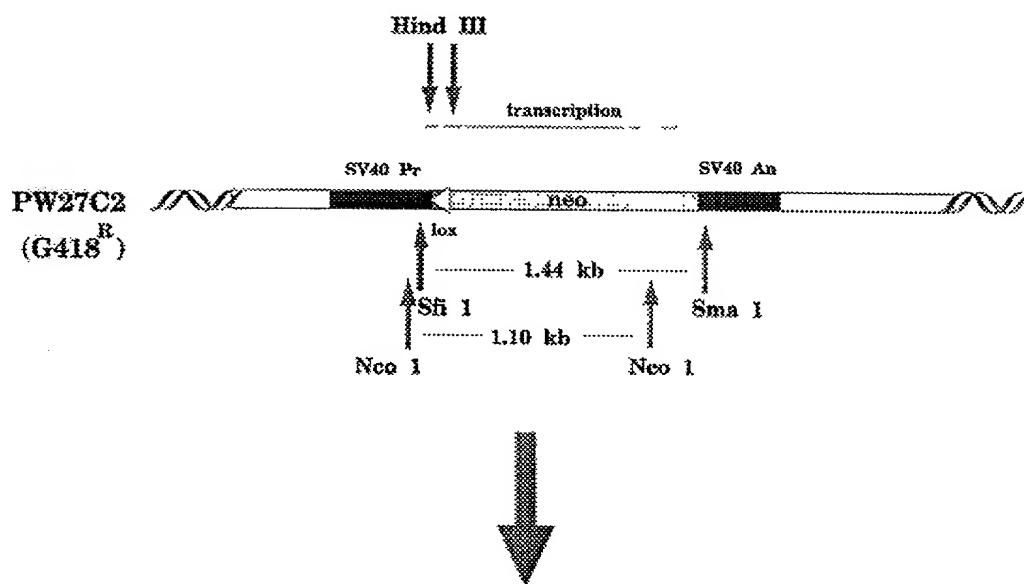


FIGURE 5C

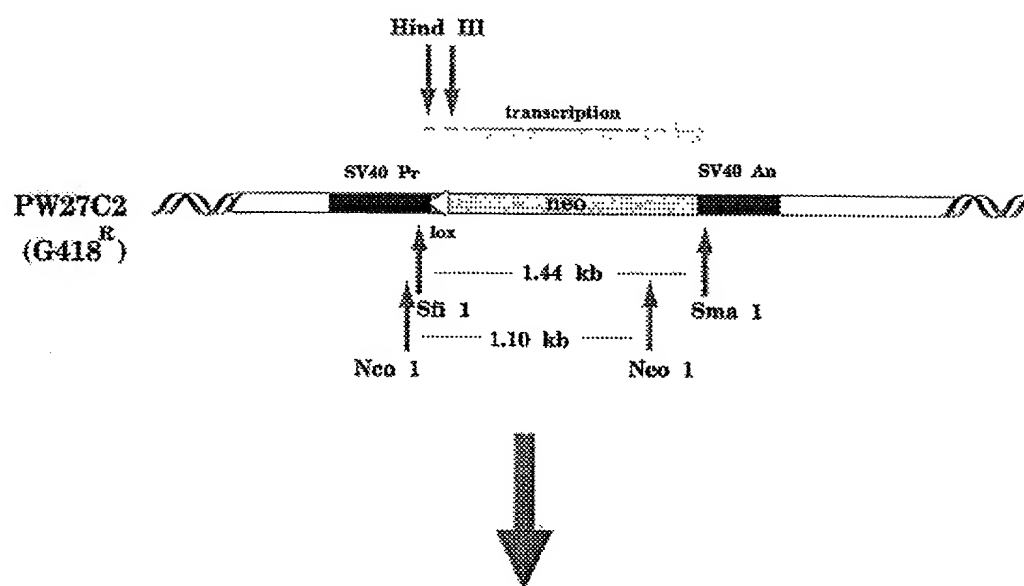
# **STRUCTURE OF INTEGRATED SEQUENCES IN CELL LINE PW27C2**



**EXPRESSION OF NEO RESULTING IN G418 RESISTANCE**

FIGURE 6A

# **STRUCTURE OF INTEGRATED SEQUENCES IN CELL LINE PW27C2**



**EXPRESSION OF NEO RESULTING IN G418 RESISTANCE**

FIGURE 6A



# **SOUTHERN BLOT HYBRIDIZATION ANALYSIS OF DNA FROM CELL LINES INFECTED WITH ADCRE**

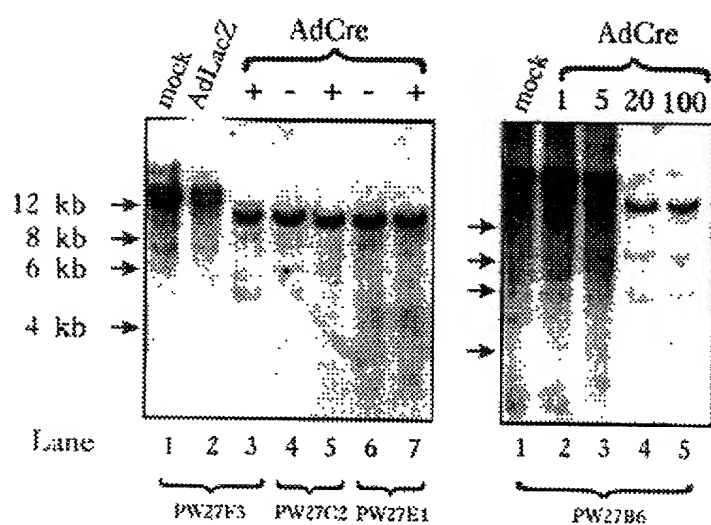


FIGURE 6C

# **CRE-MEDIATED INSERTION OF A PLASMID ENCODING HISD SEQUENCES INTO THE LOX SITE OF CELL LINE PW27C2**

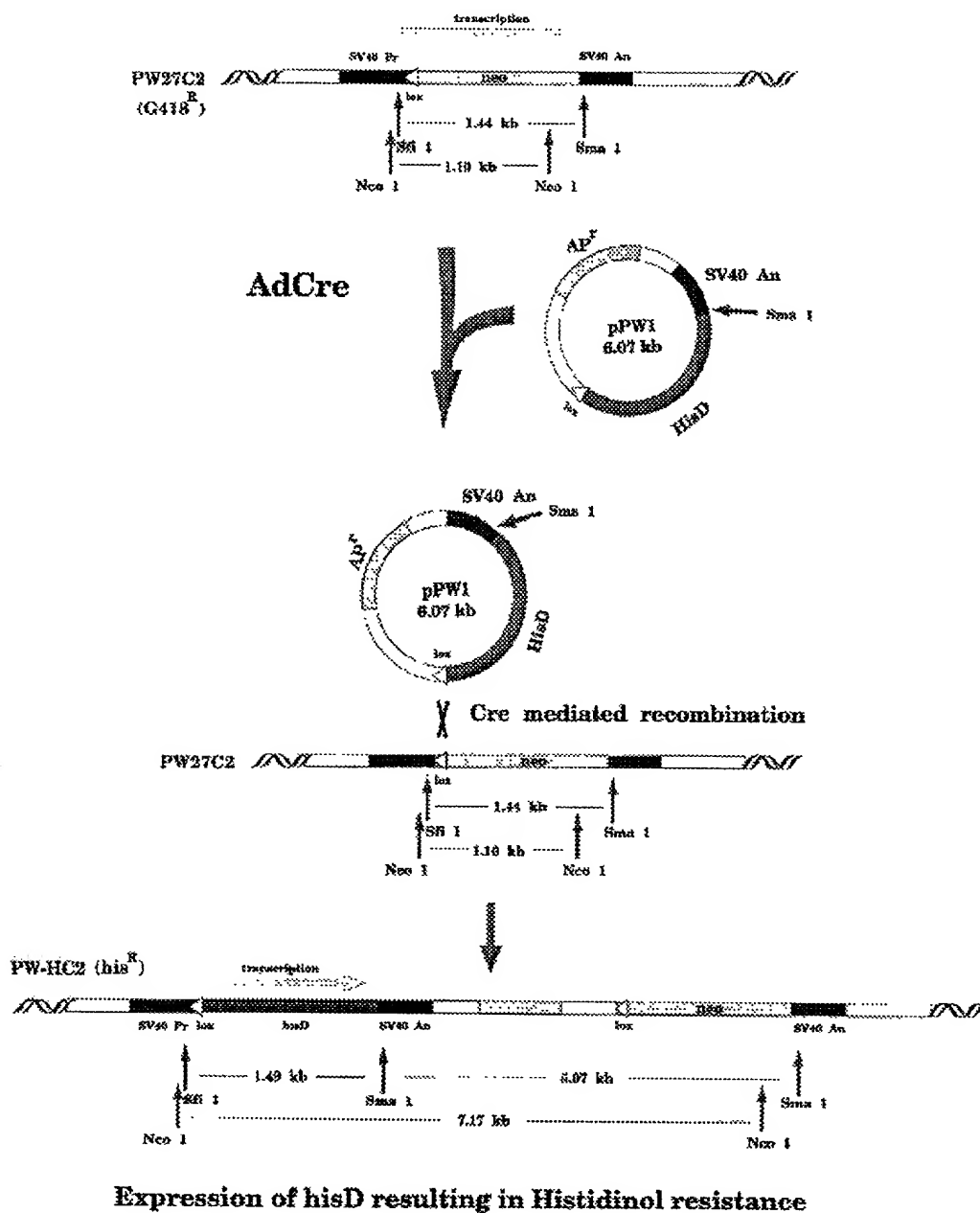


FIGURE 7A

**SOUTHERN BLOT HYBRIDIZATION ANALYSIS OF CELL LINES  
DERIVED BY CRE MEDIATED INTEGRATION OF pPW1**

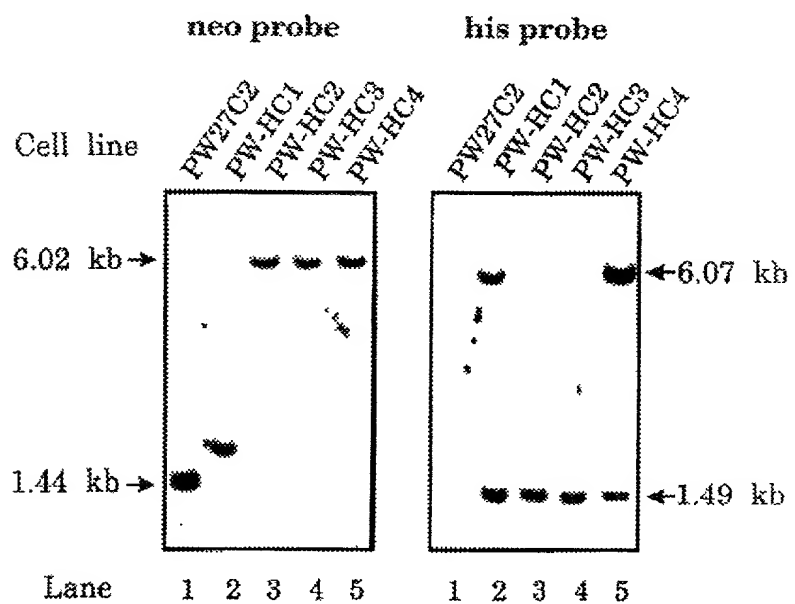


FIGURE 7B

**SOUTHERN BLOT HYBRIDIZATION ANALYSIS OF CELL LINES  
DERIVED BY CRE MEDIATED INTEGRATION OF pPW1**

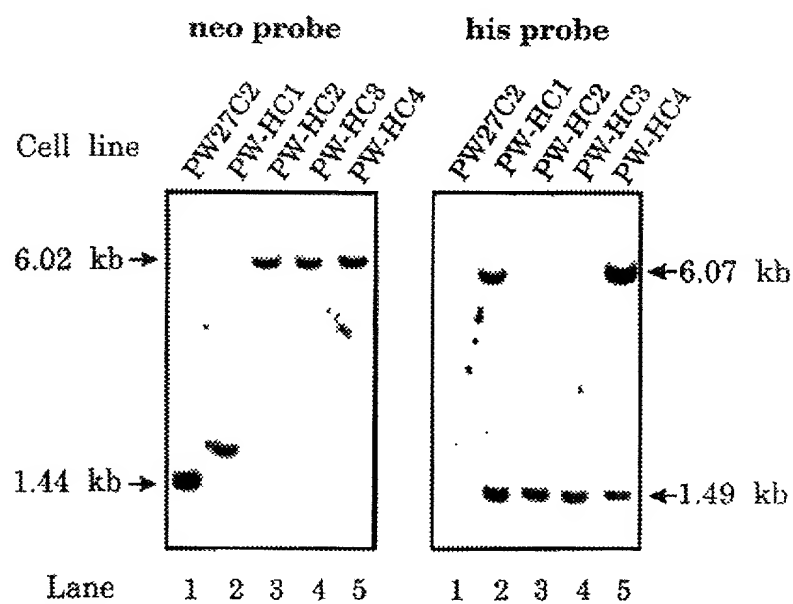
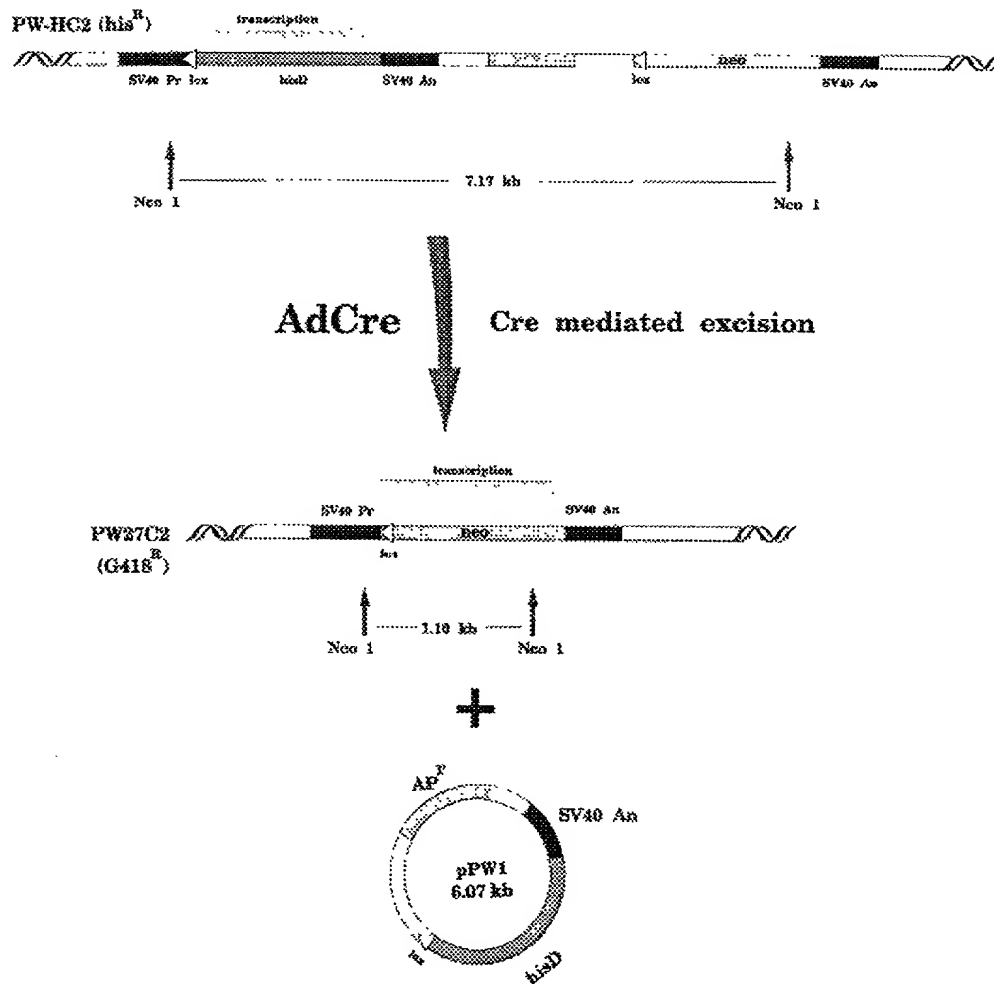


FIGURE 7B

# **CRE-MEDIATED EXCISION OF DNA CONTAINING hisD SEQUENCES FLANKED BY LOX SITES**



**Loss of *hisD* expression (Histidinol sensitive)  
Gain of *neo* expression (*G418* resistant)**

FIGURE 8A

Conversion of HisD resistant cells to  
G418 resistant cells by infection with AdCre

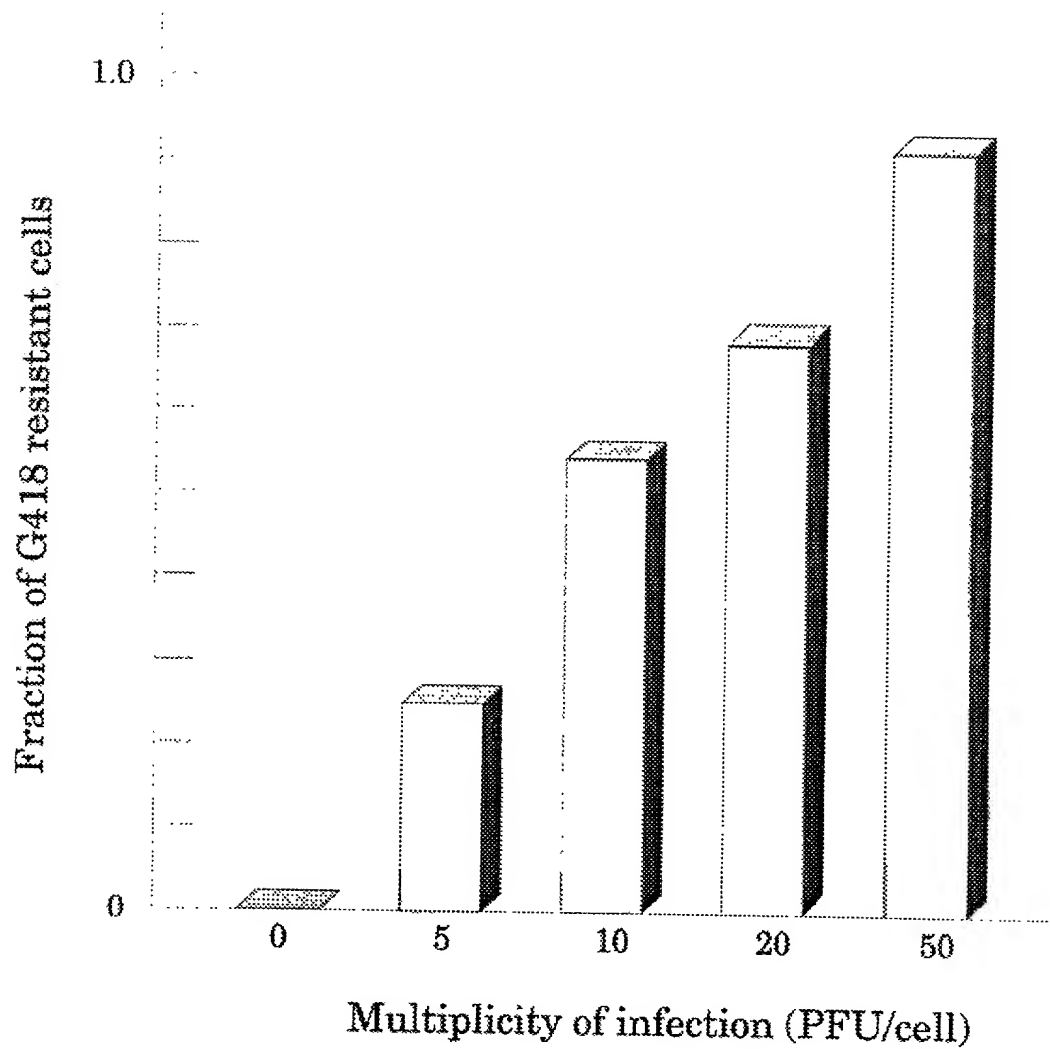
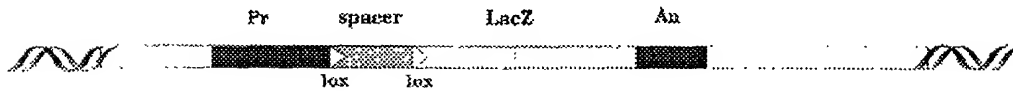
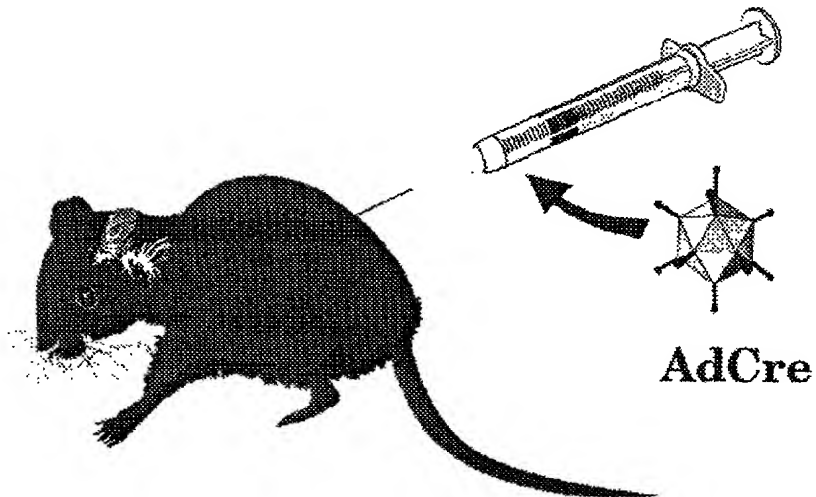


FIGURE 8B

## IN VIVO GENE EXPRESSION CONTROLLED BY A MOLECULAR SWITCH



### TRANSGENICS CONTAINING GENES CONTROLLED BY A MOLECULAR SWITCH



EXPRESSION OF  $\beta$ -Gal, Rb, P53, Neu ETC.

Figure 9